

Stone Tools

"Stud Clip"

Abstract of Disclosure

A tool developed to clip on the vertical-building members (ie: studs) to facilitate dispensing of electrical wire and plastic water lines as well as provide scaffold and workbench capabilities for those trades working in building construction prior to the wallboard installation stage.

"Stud Clips" technology was developed as a means to provide competitive advantages to the worker through increased safety, better work efficiency and less physical wear and tear on the worker.

Stud Clip anchors to vertical building members by fastening around the specific building members via preformed metal that slides horizontally and across on to the stud or build members and is then twisted forward to the 45 degree position which holds the tool in place via two side and end flaps as well as forward and/ or rear anchor teeth (pending model type).

Once in place Stud Clip provides hooks for electrician's "roll bars", dispensing rollers for plumber's plastic water lines; scaffold brackets for temporary required planking and workbenches to assist all workers with their day-to-day duties.

Stud Clip

Disclosure:

The following invention relates to a clip or tool of different model types, which are specifically designed for the construction industry.

Background of the invention:

In the construction industry any time something is required to be fastened (temporarily or permanently) to a wood or metal stud (or any vertical building member) the trades person is not only required to hold the item to fasten it accurately in place but also use a hammer or drill as well as nails or screws.

Through the creation of "Stud Clip" we achieve greater work efficiency while at the same time providing a higher level of safety and convenience and reducing long-term physical wear and tear of the worker.

Example #1: When an electrician is mounting wire rolls he/she has to drive in and bend 3 1/4 - 3 1/2" spikes around a pull bar (minimum 4, as many as 8-10 spikes) to securely fasten the roll bar to a wood stud (with as many as 4 40-50 lb rolls of wire mounted on the bar). In the case of a steel stud the difficulties arise through holes in the metal that do not line up or steel studs that remain permanently twisted after having a roll bar forced through them to support wire.

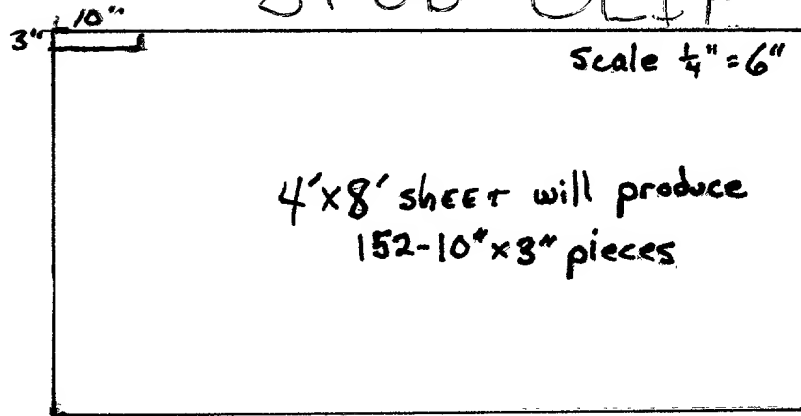
Stud Clip "Reel Hooks" (RH01) twist solidly into place in a fraction of the time required to drive in and bend nails and removes the risk of having a nail bend out of place when heavy rolls are lifted into place. Also is removed with greater ease therefore reducing physical wear and tear of the worker.

Example #2: In the case of the plumber when installing water lines their material is provided in a large coil in which the plumber unrolls around their work area or lays horizontally on a coil dispersing spool (which takes up working area and doesn't positively hold the coil of waterline in place while the worker pulls against it.

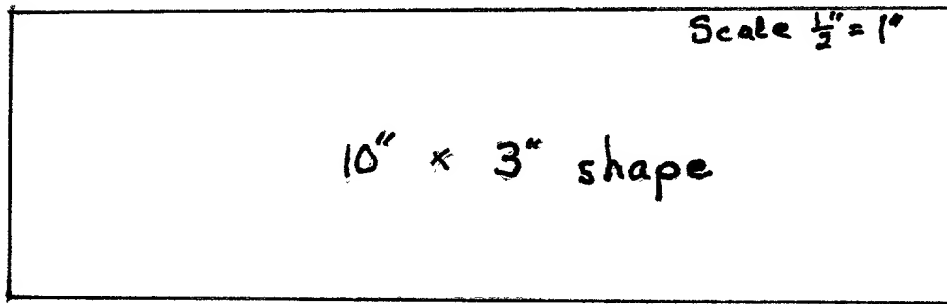
Stud Clip "Coil Rollers" (CR01) first of all is a fraction of the weight of a horizontal spool. They take far less room when stored in the vehicle, provide more work area for not only the water line installer but other workers in the area and provides a solid anchor from which to pull against thereby not only reducing set up time, installation time, dismantle and storage time but increases safety through less floor clutter and eliminates the need of second worker to keep the coil from tangling. As an added bonus "Coil Rollers" also provide the plumber with a proper height holder for cutting drain pipes thereby reducing lower back wear and tear.

STUD-CLIP

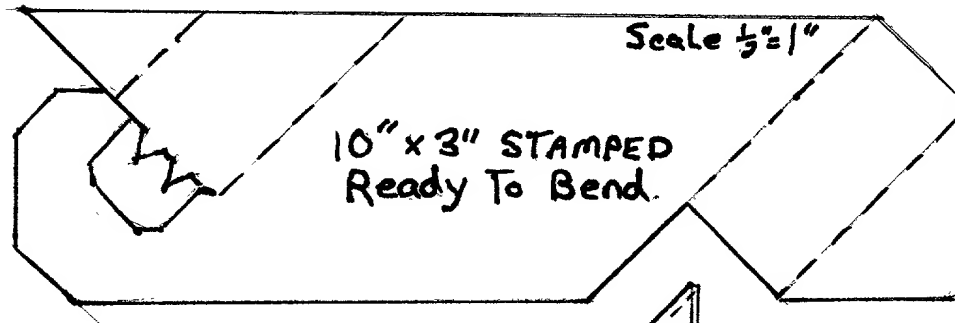
I



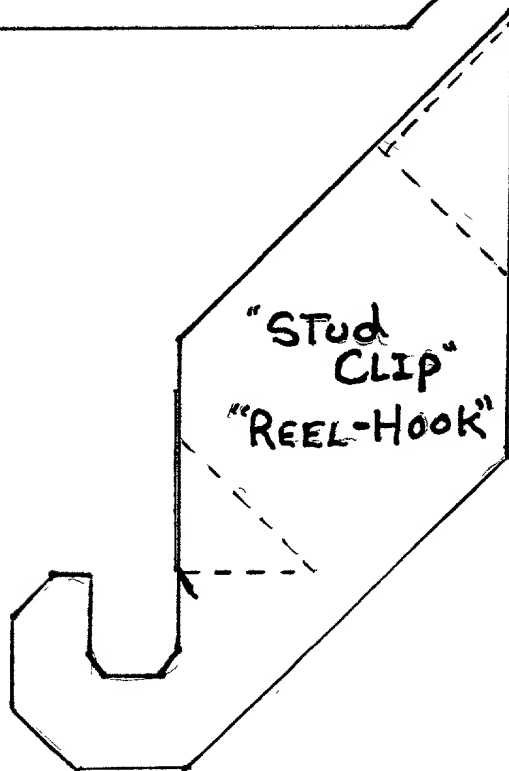
II



III

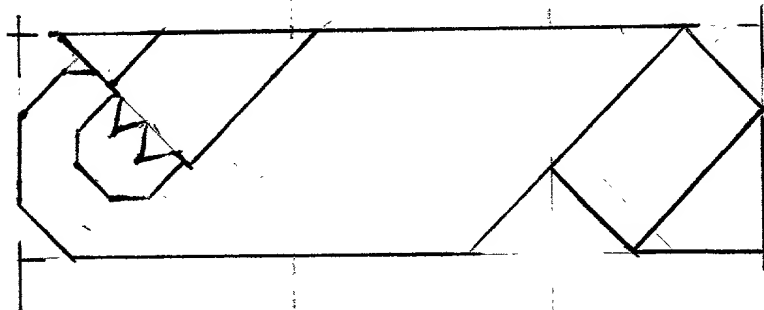


IV



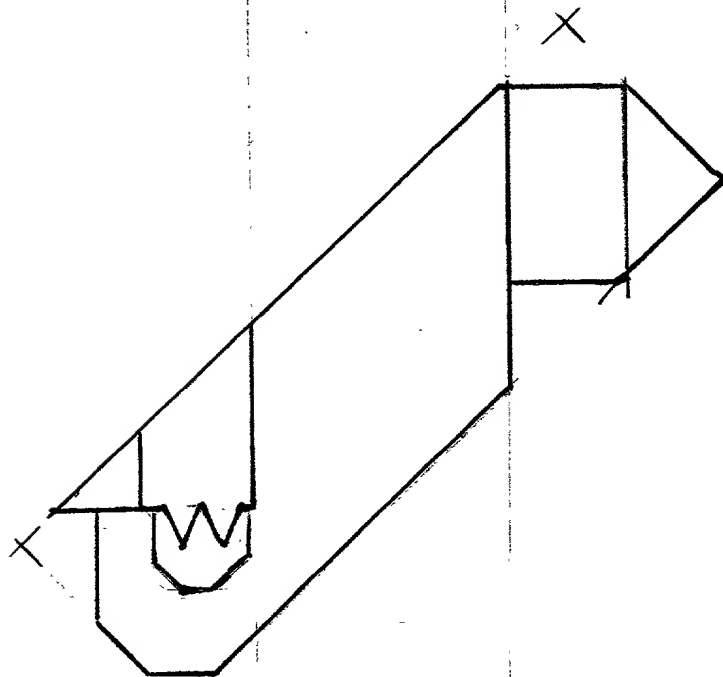
"STUD-CLIP"

— REEL - HOOKS —



SHOWS LAYOUT
— ACROSS —
VERTICAL BUILDING
MEMBER.
(PRIOR TO BENDING)

3 1/2"
(2x4 STUD)
OR V.B.M.

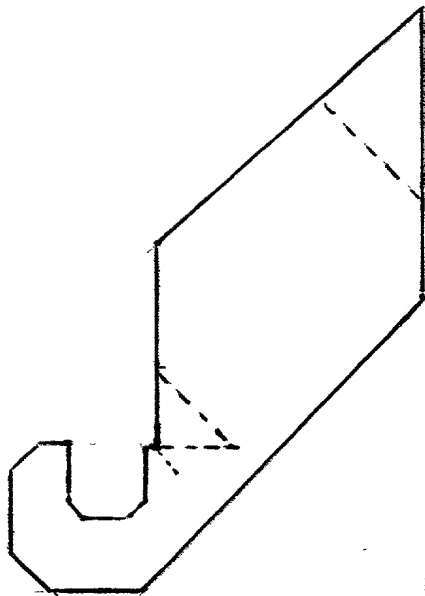


SHOWS LAYOUT
AT 45° ACROSS
V.B.M.
(PRIOR TO BENDING)

0988654-11001

RH 01

"STUD-CLIP"
— REEL-HOOK —



SIDE
VIEW

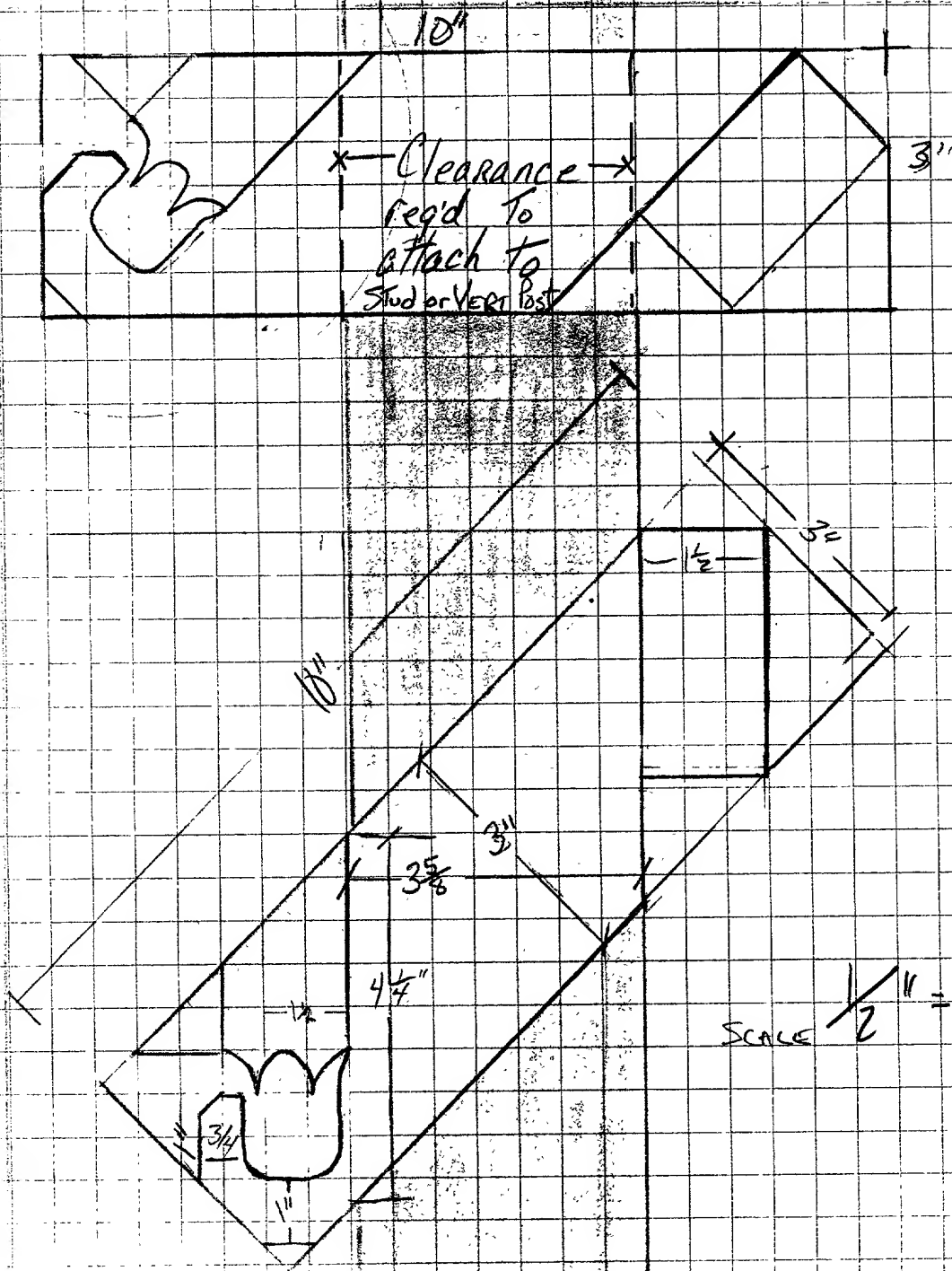


FACING
VIEW

RH-02
P-19

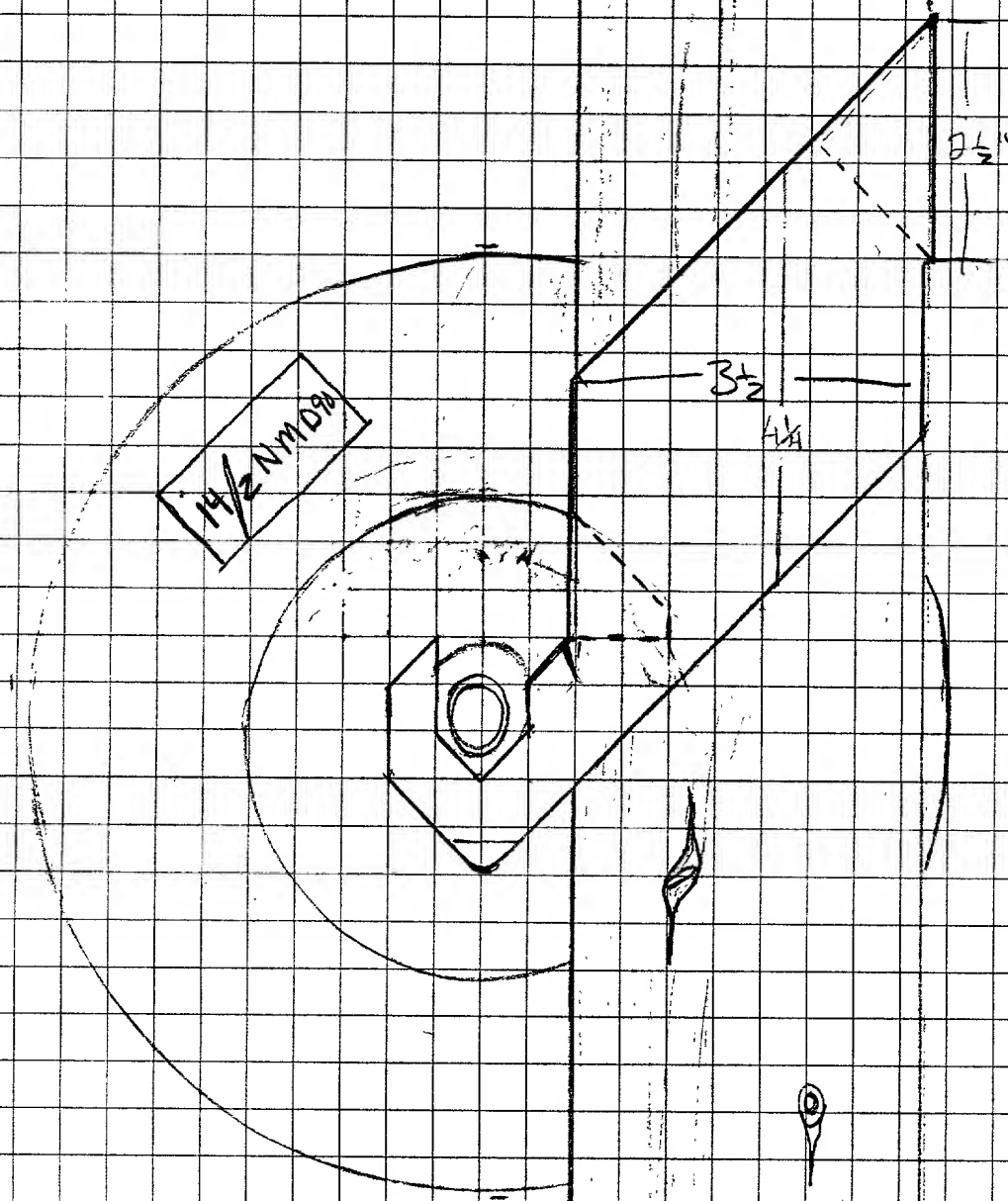
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STUD CLIP REEL HOOKS



Sheet of
R.H. 03
"REEL HOOK"
P-20

STUD CLIP "Reel Hooks"



RH 04
Reel Hook

P-21

"STUD CLIP" REEL HOOKS

STUD CLIP
"REEL HOOK"

STUD CLIP
"REEL HOOK"

17/2 NMA 90
WIRE REEL.

1/4" Roll BAR

2x4 STUD

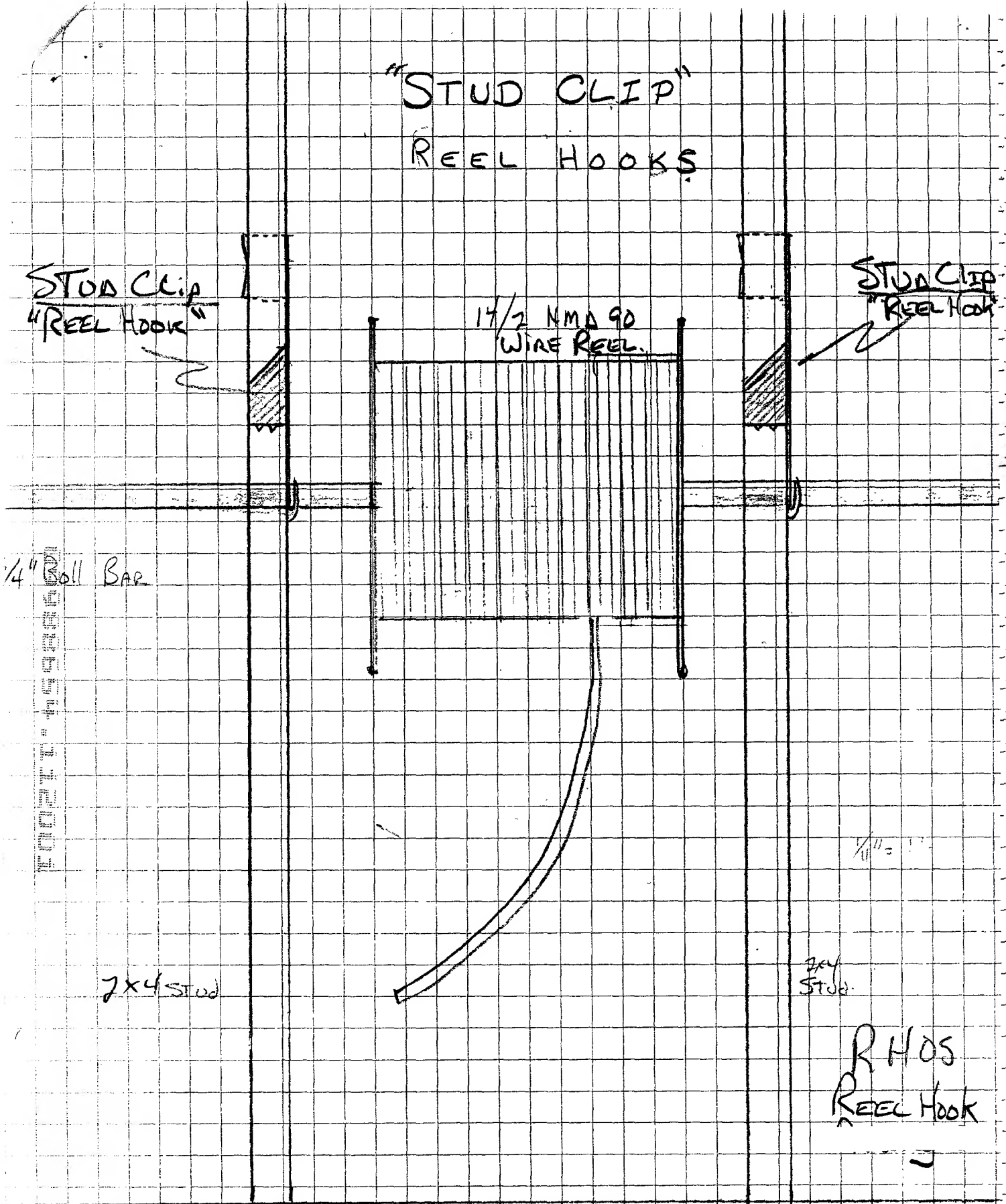
2x4
STUD

R.H.O.S
REEL HOOK

FLOOR LEVEL

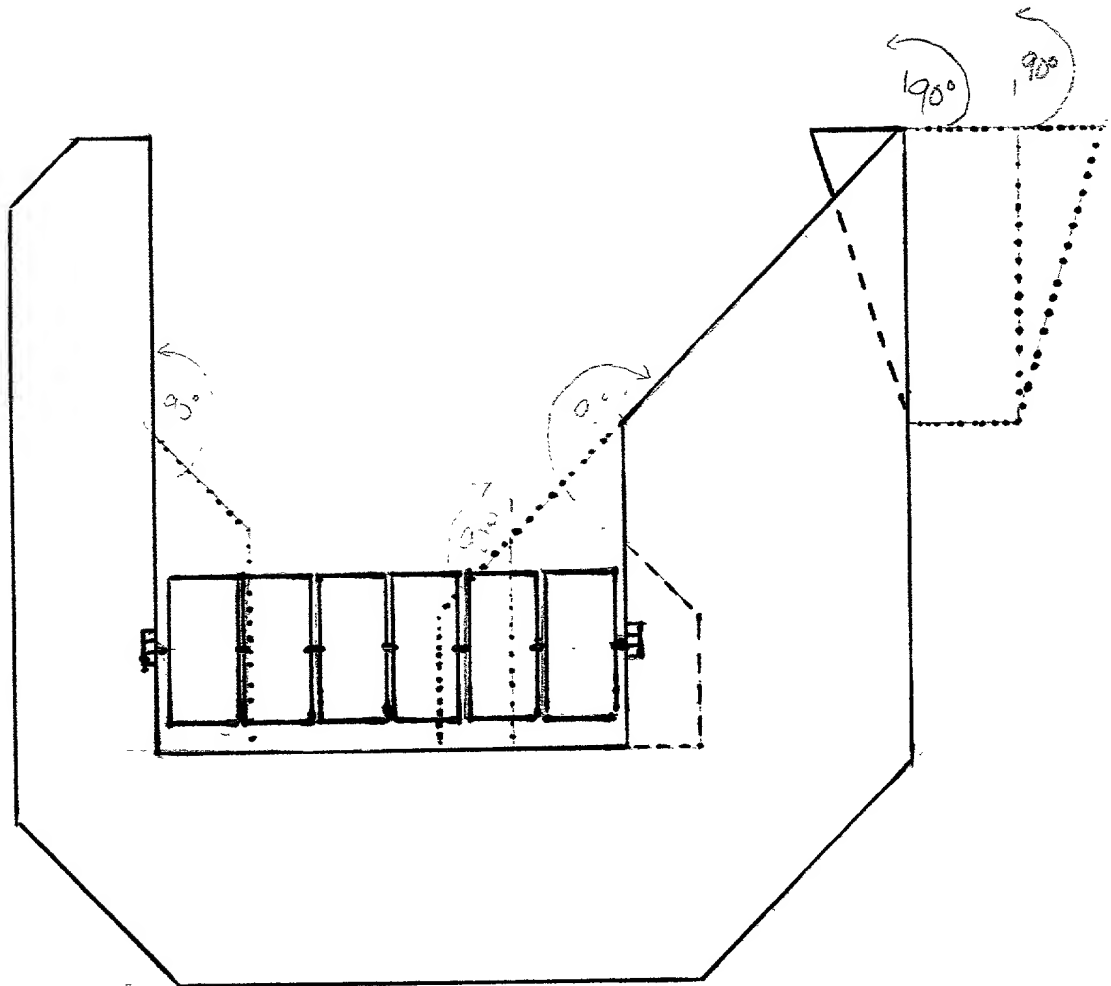
2x4 PLATE ↑

P-22



"STUD-CLIP"

— COIL-ROLLER —

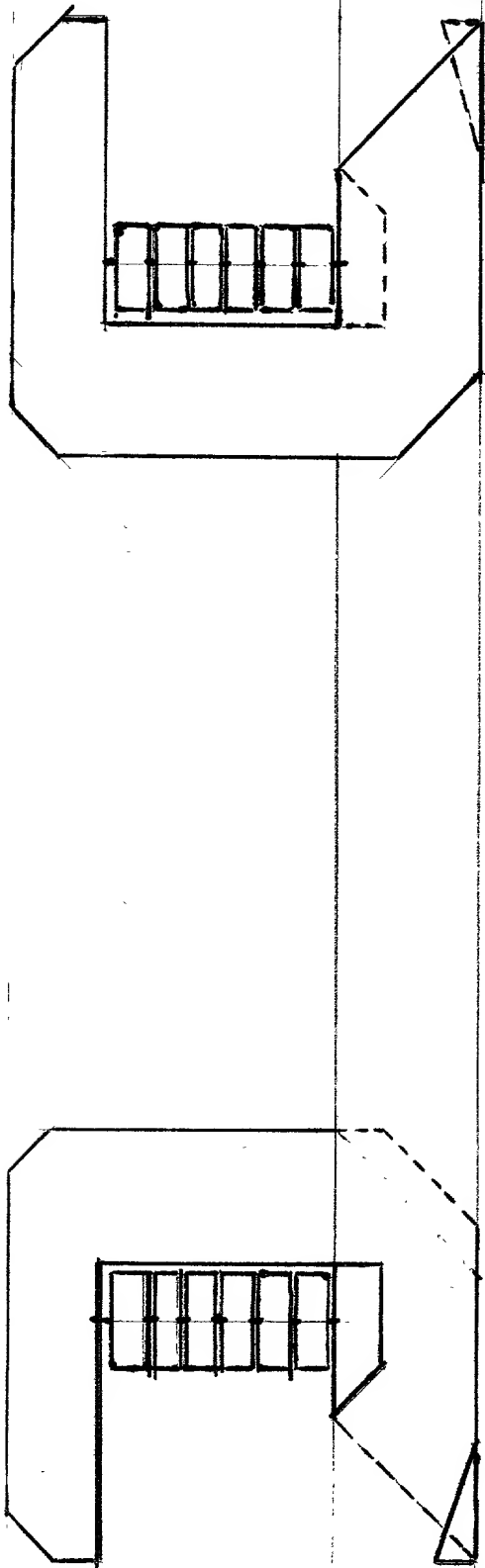


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CR-01

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"STUD-CLIP"
—COIL-ROLLER—
(SHOWING BACK TO BACK)

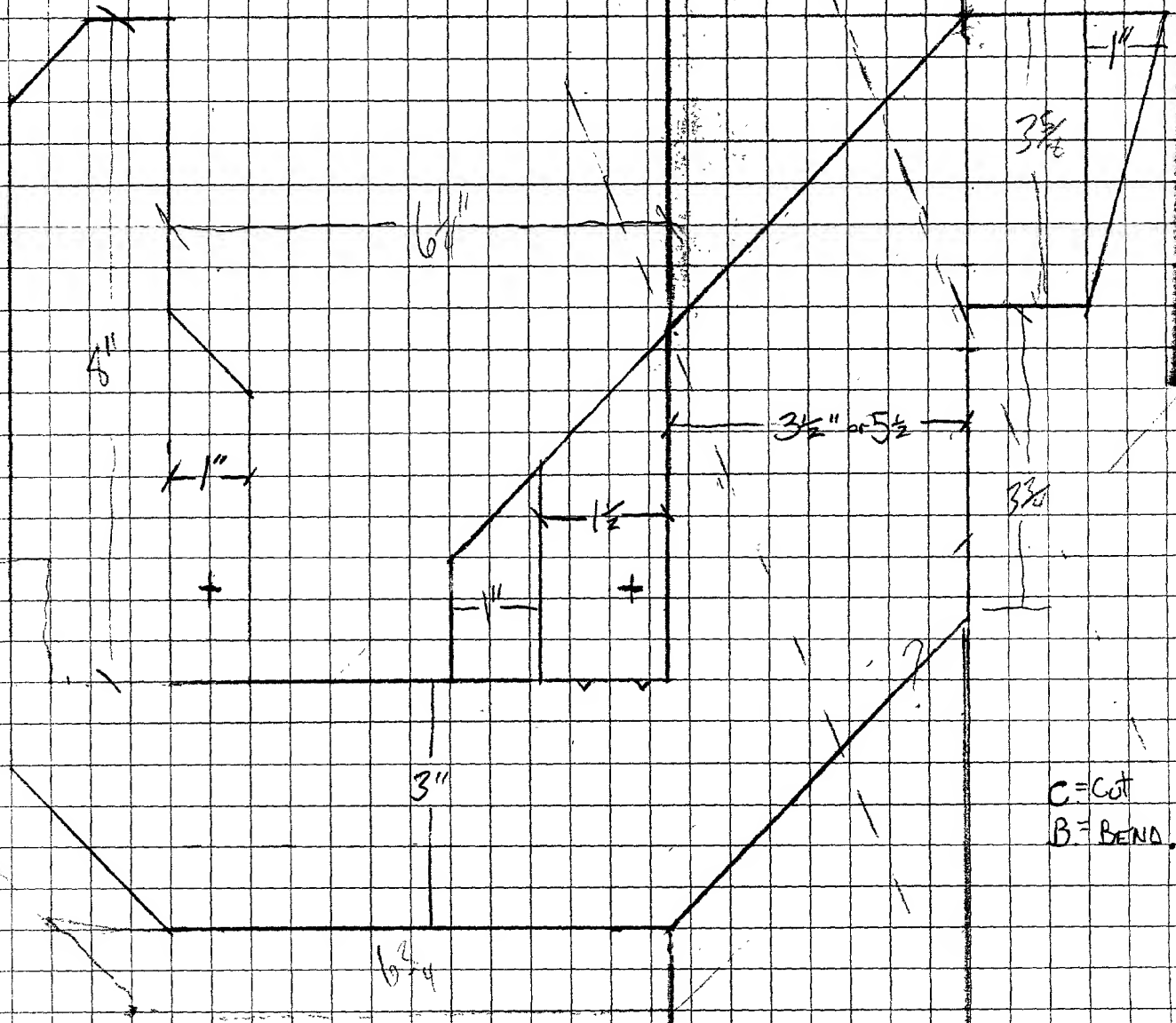


CR-02

P-24

0963654 11004

STUD CLIP "COIL ROLLER"



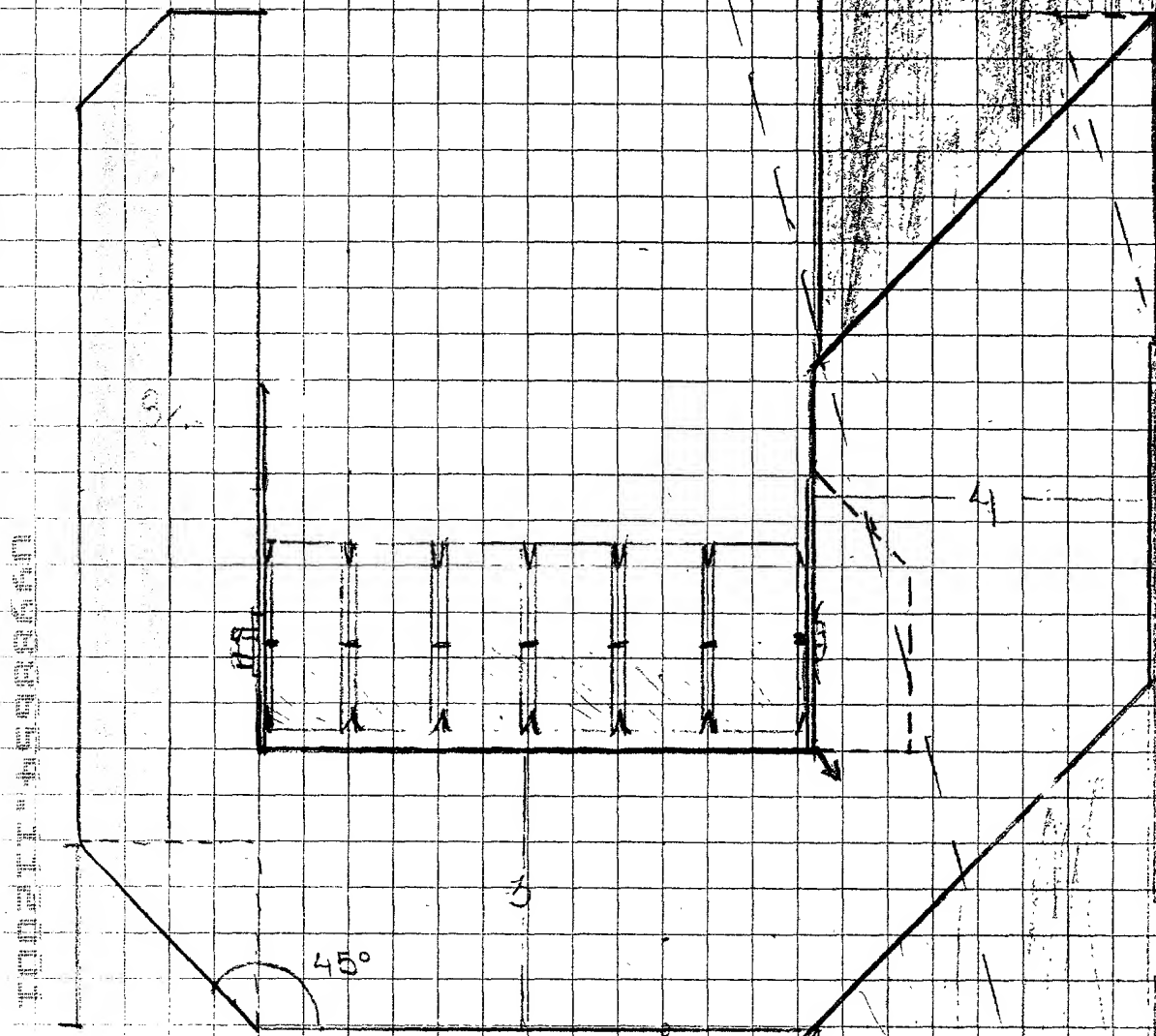
C = CUT
B = BEND

Scale 1 Square = $\frac{1}{2}$ "

CR-03
Coil Roll

P-25

STUD CLIP Coil Roller



WORKS WELL
VERY WELL.

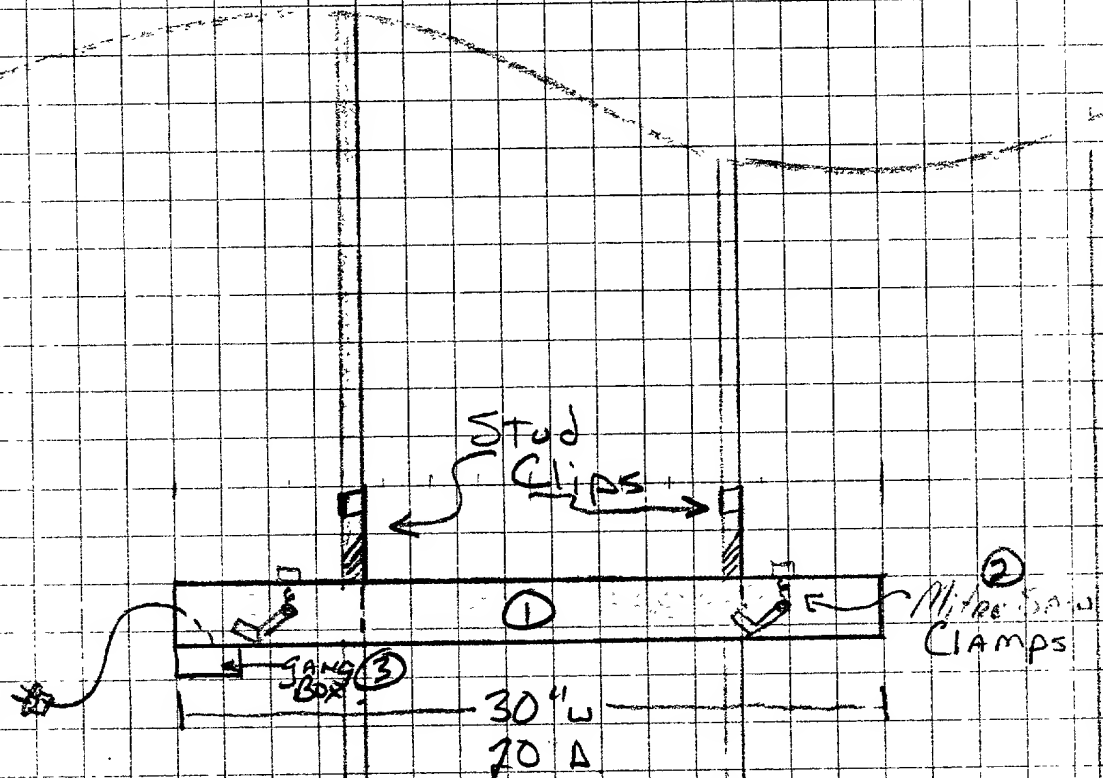
Coil Roller

CR 04
P-26

STUD CLIP

"WORK BENCH"

- ① → STANDARD BLUE PRINT SIZE
- ② → SCREW TIGHTEN CLAMPS TO SECURELY HOLD A POWER MITRE SAW.
- ③ → ELECTRICAL RECEPTACLE GANG BOX



WB-01.

WORK BENCH
DRAWING 01.

N.T.S.

P-27

Bottom Plate

ANCHOR BLOCKS
FLIP-UP

FRAMING SQUARE
CLIPS ON UNDERNEATH

SQUARE
CLIP

BASE OF GROOVES
TEFLON COATED

FACING

SIDE

ANCHOR
TEETH

CARRYING HANDLE

SLIDE-IN

LEVEL

SQUARE

FRAMING SQUARE CLIP

SQUARE
CLIP

SLOTS FOR LEVEL
+ FRAMING SQUARE

TOP
VIEW

ANCHOR

LEVEL
+ SQUARE
ANCHORS

ALFRED BOX
SLIDING CRANK

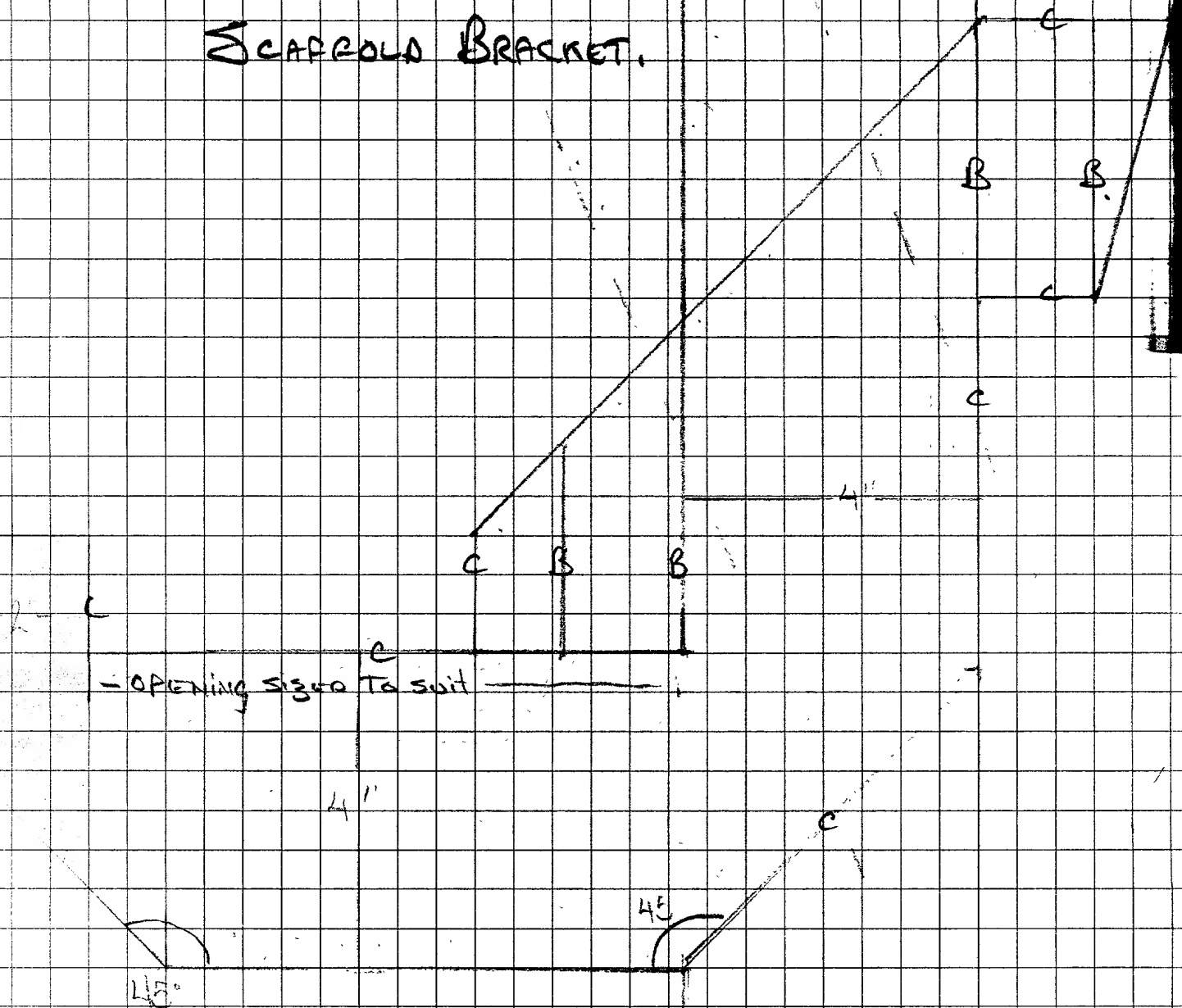
DRAW HANDLE
w/ THUMB LOCKS

STORED
VERSION

32" W.

DRAWING WB 02
P-28

STUD CLIP SCAFFOLD BRACKET.



C = CUT
B = BOND

Scaffold
Bracket
01
P-29